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PATENT

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By *PKT*  
Peter K. Trzyna (Reg. No. 32, 601)

Date 20 Sept 1999

Group Communications Multiplexing System

Daniel L. Marks

INSAI

## I. FIELD OF INVENTION

This invention is directed to an apparatus, a manufacture, and methods for making and using the same, in a field of digital electrical computer systems. More particularly, the present invention is directed to a digital electrical computer system involving a plurality of participator computers linked by a network to at least one of a plurality of participator computers, the participator computers operating in conjunction with the controller computer to handle multiplexing operations for communications involving groups of some of the participator computers.

## II. BACKGROUND OF THE INVENTION

Multiplexing group communications among computers ranges from very simple to very complex communications systems. At a simple level, group communications among computers <sup>involve</sup> ~~involves~~ electronic mail sent in a one way transmission to all those in a group or subgroup using, say, a local area network. Arbitrating which computers receive electronic mail is a rather well understood undertaking.

On a more complex level, corporations may link remote offices to have a conference by computer. A central computer can control the multiplexing of what appears as an electronic equivalent to a discussion involving many individuals.

Even more complex is linking of computers to communicate in what has become known as a "chat room." Chat room communications can be mere text, such as that offered locally on a file server, or can involve graphics and certain multimedia capability, as exemplified by such Internet service providers as America On Line. Multiplexing in multimedia is more complex for this electronic environment.

On the Internet, "chat room" communications analogous to America On Line have not been developed, at least in part because Internet was structured for one-way communications analogous to electronic mail, rather than for real time group chat room communications. Further, unlike the an Internet service provider, which has control over both the hardware platform and the computer program running on the platform to create

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the "chat room", there is no particular control over the platform that would be encountered on the Internet. Therefore, development of multiplexing technology for such an environment has been minimal.

Even with an emergence of the World Wide Web, which does have certain graphical multimedia capability, sophisticated chat room communication multiplexing has been the domain of the Internet service providers. Users therefore have a choice between the limited audience of a particular Internet Service provider or the limited chat capability of the Internet.

### **III. SUMMARY OF THE INVENTION**

It is an object of the present invention to overcome such limitations of the prior art and to advance and improve the technology of group computer multiplexing to enable better computerized group communications.

It is another object of the present invention to provide a computerized human communication arbitrating and distributing system.

It is yet another object of the present invention to provide a group communication multiplexing system involving a controller digital computer linked to a plurality of participator computers to organize communications by groups of the participator computers.

It is still another object of the present invention to link the controller computer and the plurality of computers with respective software coordinated to arbitrate multiplexing activities.

It is still a further object of the present invention to provide a chat capability suitable for handling graphical, textual, and multimedia information in a platform independent manner.

These and other objects and utilities of the invention, which apparent from the discussion herein, are addressed by a computerized human communication arbitrating





FIG. 17 is an illustration of an attribute revocation on the new channel screen of the present invention.

FIG. 18 is a further illustration of the new channel screen of the present invention.

FIG. 19 is an illustration of the channel list window screen of the present invention.

FIG. 20 is an illustration of the toggle posting option on a screen of the present invention.

FIG. 21 is an illustration of a moderated version of the new channel screen of the present invention.

FIG. 22 is an illustration of a communication on a moderation window screen of the present invention.

FIG. 23 is an illustration of the communication passed on to the moderated version of the new channel screen of the present invention.

FIG. 24 is an illustration of a communication, for sending a graphical multimedia message, on to the moderated version of the new channel screen of the present invention.

FIG. 25 is an illustration of a communication, for passing a URL (Uniform Resource Locator) to channel members, on a moderator pull-down menu screen of the present invention.

FIG. 25 is an illustration, showing the name of the URL, on a moderated version of the new channel screen of the present invention.

FIG. 26 is an illustration of data associated with the graphical multimedia message on a moderated version of the new channel screen of the present invention.

FIG. 27 is an illustration of a proprietary editor, suitable for a dialog to change tokens, on a screen of the present invention.

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FIG. 28 is an illustration of a text-based interface login/password screen of the present invention.

FIG. 29 is an illustration of a text-based interface group screen of the present invention.

FIG. 30 is another illustration of a text-based interface group screen of the present invention.

FIG. 31 is another illustration of a text-based interface group screen of the present invention.

FIG. 32 is an illustration of a text-based interface private message screen of the present invention.

FIG. 33 is another illustration of a text-based interface private message screen of the present invention.

FIG. 34 is another illustration of a text-based interface group with moderator screen of the present invention.

## V. DETAILED DESCRIPTION OF THE DRAWINGS

In providing a detailed description of a preferred embodiment of the present invention, reference is made to an appendix hereto, including the following items.

### Appendix Contents

ALLUSER C  
ALLUSER H  
CHANNEL C  
CHANNEL H  
CHANNEL HLP  
CLIST C  
CLIST H  
CLIST HLP  
EDITUSER C  
EDITUSER H  
ENTRYFRM C  
ENTRYFRM H  
ENTRYFRM HLP  
HELP C



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HELP H  
HELPSCR C  
HELPSCR H  
LINEEDIT C  
LINEEDIT H  
LIST C  
LIST H  
LOGIN HLP  
MAIN C  
MAKEFILE  
MESSAGE C  
MESSAGE H  
MODERAT HLP  
PRIVATE C  
PRIVATE H  
PRIVATE HLP  
SOCKIO C  
SOCKIO H  
STR C  
STR H  
UCCLIENT  
USER C  
USER H  
WINDOW C  
WINDOW H

~~Note that the appendix includes code for two different embodiments: a~~

~~Tellnet embodiment and a JAVA embodiment. Documentation and error messages, help~~

~~files, log files, are also included in the appendix. While platform controlled embodiments~~

are within the scope of the invention, it is particularly advantageous to have a platform independent embodiment, i.e., an embodiment that is byte code compiled.

Referring now to FIG. 1, the overall functioning of a computerized human communication arbitrating and distributing System 1 of the present invention is shown with odd numbers designating hardware or programmed hardware, and even numbers designating computer program logic and data flow. The System 1 includes a digital Controller Computer 3, such as an Internet service provider-type computer. The Controller Computer 3 is operating with an operating system.

System 1 also includes a plurality of digital Participator Computers 5, each of which may be an IBM-compatible personal computer with a processor and a DOS operating system. Each of the Participator Computers 5 includes an Input Device 7 for



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to Block 10, which illustrates demultiplexing and multiplexing operations carried out by message type on API messages of all types. Block 10 links to Block 12, which is illustrative of channel A.... Block 10 also links to Block 14, which illustrates handling private message A. Block 10 also links to Block 16, illustrative of handling out-of-band media. Block 10 additionally links to Block 18, which illustrates asynchronous status messages.

Multiple connections between the controller computer 3 and a plurality of participator computers 5 permit communication implemented via the interplay of controller software 2 and participator software 4. With particular regard to the participator software 4 illustrated in FIG. 2, Block 20 is illustrative of demultiplexing and multiplexing operations carried out by message type on API messages of all types. Block 20 links to Block 22, which is illustrative of channel A.... Block 20 also links to Block 24, which illustrates handling private message A. Block 20 also links to Block 26, illustrative of handling out-of-band media via Block 28, which is illustrative of a Web browser or auxiliary computer program. Block 20 also links to Block 30, which illustrates asynchronous status message handling via Block 32, illustrative of user interface objects windows and screens.

De/multiplexing via API provides a "virtual connection" between Channel, Private Message, and Multimedia objects in the controller computer 3 and each participator computer 5. An alternate architecture is to allow for a separate connection between each object so that multiplexing/demultiplexing is not necessary and each object handles its own connection. This would influence system performance, however.

Turning now to FIG. 3, a data and communications dependency diagram controller group channel structure is illustrated. Beginning from what is designated as a portion of Block 10 the logic flows to Block 34 to consider JOIN, LEAVE, STATUS, SETCHAN API instructions. Block 34 examines member list maintenance instructions, accessing Block 36 to check permissions, list users, and change attributes. Note the



[illegible]

D  
D

D

D

12

**Figure 6**

FIG. 6 is a participant software out-of-band multimedia information flow diagram, which begins with Block 26, the multimedia type patch point. Block 26 leads to Block 102, which tests whether there is an internally handlable multimedia type. If not, Block 104 looks up a suitable agent for data type presentation, which leads to Block 106, which tests whether an agent was found. If not, Block 108 reports location of data to the user for future referencing. If the agent is found in Block 106, the logic flows to Block 110, which invokes the agent with a data reference to present the data.

With further regard to the manner of interaction between the controller computer 3 and the participator computers 5, and their respective computer programs 2

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and 4, includes a moderation capability that is controlled, or arbitrated, pursuant to system 1 recognizing user identity. Note that using the user identity for moderation purposes is a use additional to the use of the user identity for security purposes.

One embodiment of the present invention is to bring chat capability to the internet and World Wide Web. However, another embodiment involves non-internet relay chat. In either embodiment, System 1 is state driven such that synchronous and asynchronous messages can be communicated. For an asynchronous notification, each message is sent through the system 1 (API), which updates the information on the output device of the participator computers 5. For a synchronous notification, a participator computer 5 must interrogate the system 1 for a message.

With regard to the arbitrating of the controller computer 3 is directed by the controller computer program 2 to use "identity tokens", which are pieces of information associated with user identity. The pieces of information are stored in memory 11 in a control computer database, along with personal information about the user, such as the user's age. The control computer database serves as a repository of tokens for other programs to access, thereby affording information to otherwise independent computer systems. In the database, the storage of tokens can be by user, group, and content, and distribution controls can also be placed on the user's tokens as well as the database.

Each token is used to control the ability of a user to gain access to other tokens in a token hierarchy arbitration process. The arbitration also includes controlling a user's ability to moderate communications involving a group or subgroup of the participator computers <sup>3</sup>~~5~~. Once in a group, temporary tokens are assigned for priority to moderate/submoderate groups (a group is sometimes known as a channel in multiplexing terminology).

Accordingly, tokens are used by the controller computer 5 to control a user's group priority and moderation privileges, as well as controlling who joins the











DMARKS now wishes to send a graphical multimedia message. This implementation sends graphical multimedia images by allowing a channel member to specify an Internet URL of a graphical multimedia resource to be presented to the group members. In this example, DMARKS wishes to send the URL "http://www.ais.net" (corresponding to the World Wide Web home page of American Information Systems, Inc.) to the channel members. DMARKS enters the URL into the response window, and selects "Send URL" from the Moderator pull-down menu (at FIG. 24).

The controller computer 5 now passes the URL to the channel members. This participator software 4 performs two actions in response to the graphical multimedia display request. The first is to put the name of the URL onto the transcript of the group's channel, so that it can be read by group members. The second response is to have the participator software show the data associated with the graphical multimedia message in a human interpretable way (at FIG. 25). To do this, the participator software 6 either uses built in rules to decide how the graphical multimedia data is to be presented, or locates another program suitable to present the data. In this case, the software 6 is utilizing Netscape Navigator™, a program for displaying graphical multimedia documents specified by a URL (at FIG. 26). Inside the Navigator window, the graphical multimedia content, the home page of AIS, is shown.

Finally, DMARKS wishes to manually modify the attribute tokens associated with the user (at FIG. 27). The user invokes the Property Editor dialog, which allows the user to view and change the tokens associated with a user. A property of a given user is determined by the Identifier and Property names. An old value of the property is shown, and a token value can be changed in the "New Value" field. With this property editor, a user with sufficient permissions (tokens) can change any of the tokens or security parameters of any user, or a user's ability to change security parameters can be restricted.

	0.9°	1.8°	2.7°	3.6°	4.5°	5.4°	6.3°	7.2°	8.1°	9.0°	9.9°	10.8°	11.7°	12.6°	13.5°	14.4°	15.3°	16.2°	17.1°	18.0°	18.9°	19.8°	20.7°	21.6°	22.5°	23.4°	24.3°	25.2°	26.1°	27.0°	27.9°	28.8°	29.7°	30.6°	31.5°	32.4°	33.3°	34.2°	35.1°	36.0°	36.9°	37.8°	38.7°	39.6°	40.5°	41.4°	42.3°	43.2°	44.1°	45.0°	45.9°	46.8°	47.7°	48.6°	49.5°	50.4°	51.3°	52.2°	53.1°	54.0°	54.9°	55.8°	56.7°	57.6°	58.5°	59.4°	60.3°	61.2°	62.1°	63.0°	63.9°	64.8°	65.7°	66.6°	67.5°	68.4°	69.3°	70.2°	71.1°	72.0°	72.9°	73.8°	74.7°	75.6°	76.5°	77.4°	78.3°	79.2°	80.1°	81.0°	81.9°	82.8°	83.7°	84.6°	85.5°	86.4°	87.3°	88.2°	89.1°	90.0°	90.9°	91.8°	92.7°	93.6°	94.5°	95.4°	96.3°	97.2°	98.1°	99.0°	99.9°	100.8°	101.7°	102.6°	103.5°	104.4°	105.3°	106.2°	107.1°	108.0°	108.9°	109.8°	110.7°	111.6°	112.5°	113.4°	114.3°	115.2°	116.1°	117.0°	117.9°	118.8°	119.7°	120.6°	121.5°	122.4°	123.3°	124.2°	125.1°	126.0°	126.9°	127.8°	128.7°	129.6°	130.5°	131.4°	132.3°	133.2°	134.1°	135.0°	135.9°	136.8°	137.7°	138.6°	139.5°	140.4°	141.3°	142.2°	143.1°	144.0°	144.9°	145.8°	146.7°	147.6°	148.5°	149.4°	150.3°	151.2°	152.1°	153.0°	153.9°	154.8°	155.7°	156.6°	157.5°	158.4°	159.3°	160.2°	161.1°	162.0°	162.9°	163.8°	164.7°	165.6°	166.5°	167.4°	168.3°	169.2°	170.1°	171.0°	171.9°	172.8°	173.7°	174.6°	175.5°	176.4°	177.3°	178.2°	179.1°	180.0°	180.9°	181.8°	182.7°	183.6°	184.5°	185.4°	186.3°	187.2°	188.1°	189.0°	189.9°	190.8°	191.7°	192.6°	193.5°	194.4°	195.3°	196.2°	197.1°	198.0°	198.9°	199.8°	200.7°	201.6°	202.5°	203.4°	204.3°	205.2°	206.1°	207.0°	207.9°	208.8°	209.7°	210.6°	211.5°	212.4°	213.3°	214.2°	215.1°	216.0°	216.9°	217.8°	218.7°	219.6°	220.5°	221.4°	222.3°	223.2°	224.1°	225.0°	225.9°	226.8°	227.7°	228.6°	229.5°	230.4°	231.3°	232.2°	233.1°	234.0°	234.9°	235.8°	236.7°	237.6°	238.5°	239.4°	240.3°	241.2°	242.1°	243.0°	243.9°	244.8°	245.7°	246.6°	247.5°	248.4°	249.3°	250.2°	251.1°	252.0°	252.9°	253.8°	254.7°	255.6°	256.5°	257.4°	258.3°	259.2°	260.1°	261.0°	261.9°	262.8°	263.7°	264.6°	265.5°	266.4°	267.3°	268.2°	269.1°	270.0°	270.9°	271.8°	272.7°	273.6°	274.5°	275.4°	276.3°	277.2°	278.1°	279.0°	279.9°	280.8°	281.7°	282.6°	283.5°	284.4°	285.3°	286.2°	287.1°	288.0°	288.9°	289.8°	290.7°	291.6°	292.5°	293.4°	294.3°	295.2°	296.1°	297.0°	297.9°	298.8°	299.7°	300.6°	301.5°	302.4°	303.3°	304.2°	305.1°	306.0°	306.9°	307.8°	308.7°	309.6°	310.5°	311.4°	312.3°	313.2°	314.1°	315.0°	315.9°	316.8°	317.7°	318.6°	319.5°	320.4°	321.3°	322.2°	323.1°	324.0°	324.9°	325.8°	326.7°	327.6°	328.5°	329.4°	330.3°	331.2°	332.1°	333.0°	333.9°	334.8°	335.7°	336.6°	337.5°	338.4°	339.3°	340.2°	341.1°	342.0°	342.9°	343.8°
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Now the screen for the channel TESTCHANNEL appears (at FIG. 29). The screen is split into four regions. The bottom left region is the response line, where messages users wish to enter appear. The upper left region is the transcript area where the communications of the group's channel appear as they occur. The upper right region is the Member List region, where a continuously updated list of members' names appear, with their attributes.

When ME is finished entering his response, the participator software forwards the response to the controller, which sends it to the members of the channel. In the transcript area, the participator software notifies the user that it has received a private message from DMARKS, which is waiting inside the private message screen. To see the private message, ME presses the private message screen hot key.

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Now ME will return to the screen for the channel TESTCHANNEL. The member list area has changed because DMARKS has revoked ME's moderator permission. ME is no longer permitted to see the permissions of other users, so this information has been removed from his display (at FIG. 33). The only information he can see now is who is moderator (at FIG. 34). A "\*" next to the identifier of a member of the group indicates the member is a moderator of the group. ME is no longer a moderator, and therefore a "\*" does not appear the identifier ME.

<sup>Further</sup>  
To ~~further~~ exemplify the use of the present invention, the following is a transcript of communications produced in accordance herewith.

---

POWERQUALITY JOHNMUNG: unclear about meaning of "first contingency"

POWERQUALITY SAM: mike, that is correct on IEEE 519

POWERQUALITY SKLEIN: In assessing network security (against outage) the first contingencies are tested to see how the power system should be reconfigured to avoid getting a second contingency and cascading into an outage.

POWERQUALITY MSTEARS: These outages point out the need for reliability as part of the overall customer picture of PQ

POWERQUALITY BRIAN: Hi Jennifer, hit crt-p for private messagae

POWERQUALITY SKLEIN: In simpler terms, a single point failure shouldn't crash the system.

POWERQUALITY SKLEIN: Are we all chatted out?

POWERQUALITY ANDYV: brian, johnmung has been banned!!! why?

POWERQUALITY BRIAN: no way, new subject

POWERQUALITY BRIAN: just a sec, andy

POWERQUALITY BRIAN: No banning on this channel, John is back on

POWERQUALITY TKEY: ieee 519 limits the harmonic current a customer can inject back into the pcc and limit the vthd the the utility provides at the PCC



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POWERQUALITY WARD: Each problem can be dealt with as it occurs, but the time involved gets very expensive.

POWERQUALITY JOHNMUNG: making equipment less susceptible causes legal problems for manufacturers- as each improvement can be cited by complainant as example of malfeasance

POWERQUALITY WARD: AndyV: The cost to the manufacturer increases. The overall cost to everyone involved decreases.

POWERQUALITY TKEY: customer pays any way you cut it, if the eqpt is more immune customers pay only once instead of every time the process fails

POWERQUALITY BRIAN: The topic is regarding Power Quality

POWERQUALITY BRIAN: This chat is available for everyone 24 hours a day

POWERQUALITY ANDYV: ddorr>> will the manufacturer spend more to produce a better product

POWERQUALITY WARD: And as Tom says, the cost to the customer is far less.

POWERQUALITY BRIAN: This chat will be functioning 24 hrs/day

POWERQUALITY BRIAN: please use it

POWERQUALITY BRIAN: The next panel discussion is Nov 15th

POWERQUALITY WARD: Andy, that's where standards come in.

POWERQUALITY SKLEIN: Is the customer capable of resolving the fingerpointing among the manufacturers and utilities?

POWERQUALITY DDORR: andy, only if the end users create a market for pq compatible eqpt by demanding better products

POWERQUALITY MSTEARS: The manufacturers problems in including fixes is being competitive with some who doesn't provide the fix

POWERQUALITY ANDYV: how will we educate the general consumer?

POWERQUALITY GRAVELY: Is it possible to have a basic theme topic or some core questions for 15 Nov chat?



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POWERQUALITY WARD: Stan, the customer cannot be expected to resolve the fingerprinting. The manufacturers and utilities need to work together.

POWERQUALITY ANDYV: about power quality and reliability?

POWERQUALITY SKLEIN: If electric power is going to be treated as a fungible commodity, there has to be a definition. Like, everyone knows what number 2 heating oil is.

POWERQUALITY SAM: Ideally a manufacturer would not be able to compete if they don't add the protective function in their products, but alot more public education is required before we get to this point.

POWERQUALITY WARD: Andy, there are many ways to educate the customers, but they require a lot of contact between the utility and the customers. The Western Resources Power Technology Center in Wichita is doing it, just as an example.

POWERQUALITY DDORR: standard power vs premium power is one solution as is std qpt vs Pq compatible eqpt

POWERQUALITY SKLEIN: I want to buy number 2 electric power and to be able to check the nameplates of my appliances to be sure they can take it. Just like I buy regular gasoline.

POWERQUALITY MSTEARS: Sam - I agree, that is partly the utilities responsibility since we serve the customers

POWERQUALITY BBOYER: What differentiates number 2 from number 1?

POWERQUALITY SKLEIN: I used the analogy of number 2 heating oil. I don't know what number 1 heating oil is.

POWERQUALITY DDORR: Number two has cap switching and all the normal utility operational events while number one is much better

POWERQUALITY SKLEIN: Perhaps we can just say regular vs high test.

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POWERQUALITY SAM: mike, yes a joint effort between the utility, manufacturer and standards jurisdictions is a goal for utilicorp as we move forward with offering from our strategic marketing partners, and bring PQ technologies to the public

POWERQUALITY TKEY: We are finding that many mfgs want to produce pq compatible equipment, but they have no clue as to what to test for

POWERQUALITY ANDYV: Tom > > will the IEC standards help?

POWERQUALITY TKEY: Its up to the utility to help define normal events IEC will take time

POWERQUALITY SKLEIN: You can't have a commodity product with all the variation in specifications we have been discussing. It has to be regular, premium, and super premium or it won't work.

POWERQUALITY JOHNMUNG: Tom as a former manufacturer i sympathize--your work at PEAC is invaluable but anecdotal knowledge from utility people on the firing line is equally important

POWERQUALITY TKEY: Super premium, does that mean a UPS?

POWERQUALITY ANDYV: how do you stop a facility from affecting you super-premium power?

POWERQUALITY TKEY: John, Good Point

POWERQUALITY SAM: Tkey, a ups, local generation or redundant service

POWERQUALITY SKLEIN: This is what I meant earlier by electricity being a non-virtualizable service. You can't make each customer see the power system as though they had their own dedicated generating plant.

POWERQUALITY BRIAN: THE CHAT CHANNEL WILL BE OPEN 24/HRS/DAY 7 DAYS A WEEK

POWERQUALITY TKEY: I must sign out for about 5 minutes but I'll be back

POWERQUALITY BRIAN: OK TOM

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POWERQUALITY MSTEARS: PQ for facilities need to be done with a system perspective to to get the right resolution

POWERQUALITY BBOYER: Andy's question is still relevant - how do stop a facility from downgrading utility service to other customers?

POWERQUALITY BRIAN: MIKE> > LETS SWITCH BACK TO RETAIL WHEELING

POWERQUALITY WARD: You work with that customer to do whatever is needed to correct their disturbances.

POWERQUALITY BBOYER: Be more specific

POWERQUALITY MSTEARS: Interaction between facilities can be evaluated and designed for

POWERQUALITY JOHNMUNG: as a key to hardening it helps to identify the most sensitive circuits, i.e. microprocessor logic, test for vulnerability under common surges, sags, rfi, and then notify users that their equipment contains these subsystems- for a start

POWERQUALITY BRIAN: hi DOUG

POWERQUALITY GRAVELY: Brian: Are you saving this session as a file? Can we get a list of chat session participants?

POWERQUALITY BRIAN: s, we may

POWERQUALITY DMARKS: gravelly: hit TAB and use the arrow keys to page through the list of participants

POWERQUALITY SKLEIN: Will the session be available for downloading?

POWERQUALITY BRIAN: yes, Mike we will publish in PQ Magazine

POWERQUALITY WARD: Part of the agreement for high quality power should be that the customer receiving the power will not disturb the utility system.

POWERQUALITY BRIAN: if john let's us.....

POWERQUALITY GRAVELY: I tried that, however, netcruiser has a software problem and I cannot see all of the names.

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POWERQUALITY SAM: most utilities rules and regulations already require that a customer not put anything back out on the utility system

POWERQUALITY BRIAN: MIKE G. > > WE WILL PUBLISH THIS IN PQ MAG NEXT MONTH IF ASNDY LETS US

POWERQUALITY BRIAN: HOW ABOUT IT ANDY?

POWERQUALITY ANDYV: ok

POWERQUALITY BRIAN: COOL

POWERQUALITY WARD: Standards will have to be set for what constitutes a disturbance, and then the utility should work with customers, install filters, etc., to be sure they stay within the rules.

POWERQUALITY BRIAN: THANKS ANDY

POWERQUALITY ANDYV: a meeting review or a summary of events

POWERQUALITY GRAVELY: It would be good to take a few minutes to recommend how the 15 Nov session could be more effective.

POWERQUALITY BRIAN: A SYNAPSE OF THIS CHAT WILL BE IN NEXT MONTHS PQ MAG

POWERQUALITY WINDSONG:

POWERQUALITY SKLEIN: I don't get PQ mag. Will it be on the Net?

POWERQUALITY BRIAN: STAN SIGN UP FOR IT ON OUR HOME PAGE

POWERQUALITY DOUGC: the transcript of this conference will be available on the EnergyOne pages.

POWERQUALITY BRIAN: YOU CAN SIGN UP ON LINE

POWERQUALITY BRIAN: [HTTP://WWW.UTILICORP.COM](http://www.utilicorp.com)

POWERQUALITY WINDSONG: Good comment Gravelly Comments from the users would be greatly appreciated!!

POWERQUALITY SAM: PQ magazine is available online on the UCU internet bulletin board, <http://www.utilicorp.com>

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POWERQUALITY ANDYV: or link from powerquality.com

POWERQUALITY BRIAN: YOU CAN GET A FREE MAG SUBSCRIPTION FROM  
UTILICORP'S HOME PAGE

POWERQUALITY SKLEIN: Thanks

POWERQUALITY BRIAN: ALSO, THERE IS A PQ FORUM ON OUR HOME PAGE

POWERQUALITY JOHNMUNG: for nov 15 shall we pick five key topics? suggest  
health care, energy storage rfi/emc as a few topics--also new gas turbine 25 kw generator  
just announce today-- just some suggestions

POWERQUALITY BRIAN: GOOD SUGGESTION JOHN

POWERQUALITY ANDYV: lets develop an outline of topics for next time.

POWERQUALITY BRIAN: OK

POWERQUALITY GRAVELY: One suggestion for 15 Nov--Have participants place a list  
of desired topics on your other chat box and prioritize by interest level.

POWERQUALITY SKLEIN: How about deregulation and retail wheeling.

POWERQUALITY BRIAN: COMMENTS SHOULD BE SENT TO ME BY EMAIL

POWERQUALITY BRIAN: BSPENCER@UTILICORP.COM

POWERQUALITY BRIAN: 15 minutes remaining

POWERQUALITY ANDYZYREK: Let's discuss the new standard IEEE 1159.

POWERQUALITY ANDYV: may be we could generate an online questionnaire to see  
what people are needing discussed.

POWERQUALITY BRIAN: but the chat is available for 24 hrs/day 7 days a week

POWERQUALITY ANDYV: what does IEEE1159 address?

POWERQUALITY BRIAN: Please send all suggestion to me for our next chat

POWERQUALITY BRIAN: Bobbin is not banned now

POWERQUALITY BRIAN: my fault

POWERQUALITY ANDYZYREK: New PQ measuring techniques. We have not  
received our issue yet.

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POWERQUALITY ANDYV: You should have it my now.

POWERQUALITY BRIAN: Bobbin is not banned anymore

POWERQUALITY ANDYV: you can e-mail me or john at: editors@powerquality.com

POWERQUALITY BRIAN: is two hours right fdo rhtis feature

POWERQUALITY JOHNMUNG: do i understand that many programmable logic  
controllers can be hardened by addition of simple CVT like a sola?

POWERQUALITY ANDYZYREK: Yes, but it is being delivered by snail mail.

POWERQUALITY ANDYV: no 2nd class

POWERQUALITY BRIAN: 15 minutes to go

POWERQUALITY ANDYV: Please e-mail me you complete name and address and I will  
mail you one today 1st class.....now is that serice or what?

POWERQUALITY BRIAN: Is two hours long enough for tthis chat?

POWERQUALITY TKEY: Im back

POWERQUALITY WARD: Brian, I think two hours is about right.

POWERQUALITY BRIAN: hi tom

POWERQUALITY BRIAN: good...

POWERQUALITY ANDYV: yes I agree 2hrs

POWERQUALITY BRIAN: anyone else

POWERQUALITY ANDYV: it the time of day correct?

POWERQUALITY BRIAN: questions now....

POWERQUALITY SKLEIN: The topic foremost in my mind right now is what to eat for  
lunch. I enjoyed the discussion, which I understand has been historic in some sense. But  
I think I will sign off now and go eat.

POWERQUALITY SAM: 2 hours seems to work very well

POWERQUALITY DANIELH: time of day is good

POWERQUALITY BILLMANN: 2 hrs is fine

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POWERQUALITY MSTEARS: Two hours work well, the middle of the day allows east and west coast to be involved

POWERQUALITY BRIAN: good, Will everyone be back for the next chat

POWERQUALITY GRAVELY: Brian, I will forward my recommendations on email, thanks.

POWERQUALITY BILLMANN: yes i'll be back

POWERQUALITY ANDZYREK: Brian, would it be possible to have a forum published on your home page prior to Nov 15 .

POWERQUALITY BRIAN: I would like to do another chat before Nov 15th, any thoughts

POWERQUALITY ANDY: U bet

POWERQUALITY SAM: I believe that this chat may set an attendance record for most participants during a first session

POWERQUALITY JOHNMUNG: a parting thought--"harmonics make the music rich, they make the tone inspring--harmonics in your power line WILL BLOW THE BUILDINGS WIRING" dIM MUNGENAST

POWERQUALITY BRIAN: Your're all invited to return

POWERQUALITY BRIAN: the next chat

POWERQUALITY BRIAN: This chat feature will help set standards of how we view our industry

POWERQUALITY WARD: For me this was two hours very well spent, and it was quite enjoyable.

POWERQUALITY BRIAN: Tell a colleague about our chat Nov 15th

POWERQUALITY BRIAN: Thanks Ward

POWERQUALITY BRIAN: I would like to do this on a weekly basis, any thoughts yet

POWERQUALITY GRAVELY: John: talk it up in Germany!!

POWERQUALITY ANDY: I would like to thank utilicorp and everyone envolved.

POWERQUALITY BRIAN: Thanks Andy for your help

POWERQUALITY WARD: Did this notice go out to the Power Globe mailing list?

POWERQUALITY BRIAN: No, but could help us Ward with that

POWERQUALITY BRIAN: Lets all get the word out about this chat

POWERQUALITY WARD: I'm on the list and will be glad to forward anything you wish to it.

POWERQUALITY BRIAN: Please use it whenever you wish, even schedule your own chats whenever

POWERQUALITY JOHN MUNG: MANY THANKS TO UTILICORP AND ALL INVOLVED- FROM AN OLD STEAM BOATER :-)

POWERQUALITY BRIAN: thanks ward

POWERQUALITY BRIAN: Hi duane

POWERQUALITY BRIAN: This chat is offically over, but do stick around for foir more chatting

POWERQUALITY BRIAN: Thanks to all, cya on Nov 15th

POWERQUALITY MSTEARS: Ward, Tom, and John I appreciate your participation

POWERQUALITY BRIAN: Thanks Guys and Ladies!!!!!!!!!!!!!!

## POWERQUALITY SWPPD: WHAT IS HAPPENING ON NOV. 15

## POWERQUALITY BRIAN: our next chat with a panel of experts

POWERQUALITY BRIAN: topic yet to be decided

POWERQUALITY DPSWOBO: Hi Brian, Sorry I was on the phone and could not respond right away. Did I get the time incorrectly for the chat?

POWERQUALITY BRIAN: please send us a suggestions

POWERQUALITY ANDY: good bye ;-)

POWERQUALITY BRIAN: Yeah, but stick around to chat with some friends

POWERQUALITY BRIAN: We had a total of 50 people and avg of 20 people at one time

POWERQUALITY BRIAN: Thanks everyone!!!Lunch Time



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POWERQUALITY BRIAN: Please use it whenever

**POWERQUALITY BRIAN:** Talk to your colleagues and friends about any particular topic

POWERQUALITY BRIAN: <http://www.utilicorp.com>

POWERQUALITY BRIAN: :)

POWERQUALITY BRIAN: yes swwp, it will be published in pq mag and our home page

POWERQUALITY BRIAN: 10-12 ct

POWERQUALITY SWPPD: GOOD BYE!

POWERQUALITY BRIAN: cya

POWERQUALITY TKEY: Good session brian, ddorr and I will be signing off now, look forward to the next session

**POWERQUALITY DMARKS:** I hope everyone enjoyed this session.

POWERQUALITY MSTEARS: I am logging off Thanks

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POWERQUALITY SAM: This is Tony and I am watching the action... we made history.  
Great work guys.

POWERQUALITY BRIAN: Lunch time

POWERQUALITY BRIAN: Next chat is nov 15th

POWERQUALITY BRIAN: 10-12ct

POWERQUALITY BRIAN: please continue to look at utilicorp's hp

POWERQUALITY BRIAN: for more info

POWERQUALITY BRIAN: email if you have any questions regarding the chat

POWERQUALITY BRIAN: bspencer@utilicorp.com

POWERQUALITY BRIAN: later

SUPPORT BRIAN: hi guys

SUPPORT BRIAN: success

SUPPORT BRIAN: yess!!

SUPPORT BRIAN: thanks for the help

SUPPORT BRIAN: cya

POWERQUALITY BRIAN: next chat on Nov 15th

POWERQUALITY BRIAN: 10-12 ct

POWERQUALITY BRIAN: any suggestion on topics please contact me by email

POWERQUALITY BRIAN: bspencer@utilicorp.com

POWERQUALITY BRIAN: hi chuck

POWERQUALITY BRIAN: hi randy

POWERQUALITY CPREECS: hello brian

POWERQUALITY BRIAN: How are you chuck

POWERQUALITY CPREECS: how has the participation been?

POWERQUALITY BRIAN: I am sorry you missed the official chat, but do come back at  
any time for some chatting

POWERQUALITY BRIAN: great 20 people avg. 50 total people

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POWERQUALITY CPREECS: ?yes, i got some conflicting info

POWERQUALITY BRIAN: transcripts will be in PQ mag next month and on utilicorp's  
home page

POWERQUALITY CPREECS: what were the topics discussed?

POWERQUALITY BRIAN: how is that chuck

POWERQUALITY BRIAN: power quality, standards,

POWERQUALITY BRIAN: retail wheeling

POWERQUALITY BRIAN: cya, -lunch time

POWERQUALITY CPREECS: later

POWERQUALITY BRIAN: bye all

POWERQUALITY BRIAN: email me chuck

POWERQUALITY RB: sorry I missed it. I got 12-2 est off the net. bye.

POWERQUALITY BRIAN: sorry RB

POWERQUALITY BRIAN: miss information

POWERQUALITY BRIAN: next chat is 10-12

POWERQUALITY BRIAN: ct

POWERQUALITY BRIAN: nov 15th

POWERQUALITY BRIAN: bye

POWERQUALITY RB: thanks

POWERQUALITY BRIAN: no prob, tell all

POWERQUALITY ANDY: Is anyone still here talking about power quality?

POWERQUALITY DAVE: Just signed on that is what I was trying to find out

POWERQUALITY ANDY: the PQ chat was running from 11:00-1:00est

POWERQUALITY ANDY: Were you involved then?

POWERQUALITY DAVE: No I just got a chance to sign on now

POWERQUALITY ANDY: there were some great discussions.

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POWERQUALITY ANDY: The transcripts will be available to down load at  
utilicorp.com Brian Spencer says.

POWERQUALITY ANDY: What is your experience in PQ

POWERQUALITY DAVE: That is what I was looking for, are they available to down  
load now, I work in a data center and have worked with UPS systems for about 12 years

POWERQUALITY DAVE: I did field service for Exide

POWERQUALITY ANDY: Brian just went to Lunch in KS I don/t know when it will  
availalbe.

POWERQUALITY DAVE: Thanks for the Info on the downloads, I hope they do this  
again

POWERQUALITY ANDY: so do I.

POWERQUALITY DAVE: What is your experience on PQ

POWERQUALITY ANDY: I am the editor or Power quality mag.

POWERQUALITY DAVE: Good mag., I pick up alot in it

POWERQUALITY ANDY: do your receive power quality assurance magazine?

POWERQUALITY ANDY: great glad to hear it.

POWERQUALITY DAVE: We get it at work but I have asked to have it sent to my home

POWERQUALITY ANDY: did you get the latest issue witht the lighting on the cover?

POWERQUALITY DAVE: Not yet, have seen it on line though

POWERQUALITY ANDY: great.

POWERQUALITY ANDY: any suggestion for editorial?

POWERQUALITY DAVE:

POWERQUALITY DAVE: no it is good

POWERQUALITY ANDY: ok.

POWERQUALITY ANDY: I am currently editing an article about VRLA battery  
charging.



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POWERQUALITY DAVE: the computer seem to have no problem, but we have alot of motor heating / bad PF

POWERQUALITY MSTONEHAM: Thanks!

POWERQUALITY DAVE: we currently are working with a consulant but I am looking for more info

POWERQUALITY ANDY: will capacitors solve your ptoblem

POWERQUALITY ANDY:

POWERQUALITY ANDY: there also is a forum under utilicorp.com where you can post you questions.

POWERQUALITY DAVE: Each 600kw UPS has Input filtering / may need trap for 5th

POWERQUALITY ANDY: or you can access it form powerquality.com

POWERQUALITY DAVE: thanks

POWERQUALITY ANDY: Talk to ya later dave

POWERQUALITY DAVE: is PQ.com your Mag

POWERQUALITY ANDY: bye

POWERQUALITY DAVE: bye

POWERQUALITY ANDY: yes

POWERQUALITY DAVE: thanks

POWERQUALITY ANDY: :-)

POWERQUALITY MSTONEHAM:

POWERQUALITY MSTONEHAM: Is anyone else hear? There doesn't seem to be much traffic.

POWERQUALITY MSTONEHAM:

POWERQUALITY CILCOJRG: Hello- is the conference over?

POWERQUALITY CILCOJRG:

POWERQUALITY CILCOJRG: hello

POWERQUALITY BRIAN: yes

POWERQUALITY BRIAN: the conference was from 10-12 ct

POWERQUALITY BRIAN: someone gave out the wrong information

POWERQUALITY BRIAN: hello cilco

POWERQUALITY BRIAN: anyone still there

SUPPORT BRIAN: hi all

SUPPORT BRIAN: anyone there

POWERQUALITY BRIAN: jenny > > are you there

POWERQUALITY CJBOUTCHER: is anyone here a utility employee?

POWERQUALITY BRIAN: Hi chris

POWERQUALITY BRIAN: how are you?

POWERQUALITY CJBOUTCHER: hi brian it is quiet in here

POWERQUALITY BRIAN: the conference was at 10:00ct

POWERQUALITY CJBOUTCHER: ah I see

POWERQUALITY CJBOUTCHER: when is the next one?

POWERQUALITY BRIAN: nov 15th

POWERQUALITY BRIAN: 10-12

POWERQUALITY BRIAN: ct

POWERQUALITY CJBOUTCHER: is the channel open at other times?

POWERQUALITY BRIAN: yes 24 hours a dfay

POWERQUALITY CJBOUTCHER: but not much discussion?

POWERQUALITY BRIAN: not right now,

POWERQUALITY BRIAN: cya

POWERQUALITY CJBOUTCHER: bye

POWERQUALITY BRIAN: hi jenny

POWERQUALITY JOSH: hello?

POWERQUALITY BRIAN: hi dan

POWERQUALITY BRIAN: hi dan

POWERQUALITY BRIAN: are you awake yet?

POWERQUALITY BRIAN: just giving present this a.m.

POWERQUALITY BRIAN: :)

POWERQUALITY BRIAN: who is guest96

POWERQUALITY GUEST96: test

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While a particular embodiment of the present invention has been disclosed, it is to be understood that various different modifications are possible and are within the true spirit of the invention, the scope of which is to be determined with reference to the claims set forth below. There is no intention, therefore, to limit the invention to the exact disclosure presented herein as a teaching of one embodiment of the invention.

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